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NOTICE OF ALLOWANCE AND FEE(S) DUE

20736

7590

08/11/2009

MANELLI DENISON & SELTER 2000 M STREET NW SUITE 700 WASHINGTON, DC 20036-3307 EXAMINER

JOHNSON, KEVIN M

ART UNIT PAPER NUMBER

1793

DATE MAILED: 08/11/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,431	09/26/2006	Jens Peter Hansen	95737-30396	2930

TITLE OF INVENTION: METHOD AND APPARATUS FOR HYDRATION OF A PARTICULATE OR PULVERULENT MATERIAL CONTAINING

CAO, HYDRATED PRODUCT, AND USE OF HYDRATED PRODUCT

ĺ	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/12/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further ndicated unless correcte maintenance fee notifical	correspondence including below or directed oth tions.	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new con	of mainte rresponde	nance fees wi ence address;	ll be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	ock 1 for any change of address)	F	Fee(s) Tra papers. Ea	ınsmittal. This ıch additional	certif paper.	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must	
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			[(Depositor's name)
								(Signature)
			Ĺ					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO]	RNEY DOCKET NO.	CONFIRMATION NO.
10/594,431	09/26/2006		Jens Peter Hansen				95737-30396	2930
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PRE	V. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	11/12/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS					
JOHNSON,	KEVIN M	1793	423-640000					
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to					
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the T a substitute for filing (B) RESIDENCE: (CI	e patent. an assign TY and S	ment. STATE OR CO	DUNT	RY)	ocument has been filed for
lease check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Indiv	idual 🖵 Cor	porau	on or other private gro	up entity Government
a. The following fee(s) a	are submitted:	41	b. Payment of Fee(s): (I		st reapply any	y prev	iously paid issue fee s	hown above)
☐ Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.					
	of Copies		☐ The Director is her	eby autho	rized to charg	e the i	required fee(s), any def	ciciency, or credit any a cextra copy of this form).
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NOTE: The Issue Fee and	s SMALL ENTITY statu d Publication Fee (if requested of the United Sta		b. Applicant is not d from anyone other that					e assignee or other party in
Typed or printed name					-			
This collection of inform in application. Confident ubmitting the completed his form and/or suggesti Sox 1450, Alexandria, V Mexandria, Virginia 223	tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the in the Chief Information Of COMPLETED FORMS	or retain a estimated dividual ficer, U.S TO THI	a benefit by the distribution take 12 m case. Any core. Patent and T S ADDRESS.	e publ inutes nment raden SENI	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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APPLICATION NO.	CATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/594,431 09/26/2006		Jens Peter Hansen	95737-30396	2930		
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MANELLI DEN	ISON & SELTER	JOHNSON, KEVIN M				
2000 M STREET NW SUITE 700			ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20036-3307			1793	_		
			DATE MAILED; 08/11/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 411 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 411 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/5 94,4 31	HANSEN ET AL.			
Notice of Allowability	Examiner	Art Unit			
	KEVIN M. JOHNSON	1793			
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to and MPEP 1308.	olication. If not included will be mailed in due course. THIS			
1. This communication is responsive to the response submitted	<u>ed 3/5/2009</u> .				
2. The allowed claim(s) is/are <u>15-17,24,36,39-43 and 48-57</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. been received in Application No				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers		948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal P				
 Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 					
3. ☑ Information Disclosure Statements (PTO/SB/08), 7. ☐ Examiner's Amendment/Comment					
Paper No./Mail Date 11. Date: 11/30/2007 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Stateme	ent of Reasons for Allowance			
/Kevin M Johnson/ Examiner, Art Unit 1793					

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DETAILED ACTION

Information Disclosure Statement

1. In the information disclosure statement filed 11/30/2007 the contents of the International Search Report and European Office Action have been considered though the source documents themselves, as listed by the applicant on the IDS of 01/16/2009, have been lines through.

Allowable Subject Matter

- 2. Claims 15-17, 24, 36, 39-43 and 48-57 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

GB 881813 to Societe D'Electro Chemie discloses a method for the hydration of CaO particulates in a gaseous medium that contains water vapor but is not saturated therewith. The hydration takes place at a temperature of 120-125°C and a pressure of 60-100 mm of Hg (0.08-0.13 atm). The partial pressure of the water vapor therefore must be less than 0.13 atm, as that is the maximum pressure employed in the hydration process and the gaseous medium can not be saturated with H₂O. The prior art fails to anticipate the instant claims as the required temperature and water vapor partial pressures are not present in the process. One of ordinary skill in the art at the time of the invention would not be motivated to modify the process to employ higher temperatures or water vapor partial pressures in the required range, as increasing the temperature or water vapor partial pressure results in a hydroxide formation rate that results in the disintegration of crystal structure of the starting oxides.

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US 3106453 to Corson discloses a process for hydrating lime in the presence of steam. The process preferably takes place at a temperature of 250-800°F, with water vapor as the primary gaseous reactant. The lowest water vapor pressure disclosed by Corson is 90 psi (6.12 atm), far exceeding the maximum water vapor partial pressure allowed by the instant claims. As a result Corson fails to anticipate or render obvious the instant claims. There is no motivation for one of ordinary skill in the art at the time of the invention to modify the process disclosed by Corson to employ a water vapor pressure in the required range, as the developed pressure is a direct result of the amount of water employed as a reactant in the Corson and the effectiveness of the hydration process could not be maintained if the amount of hydrating reactant was reduced.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN M. JOHNSON whose telephone number is (571)270-3584. The examiner can normally be reached on Monday-Friday 7:30 AM to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin M Johnson/ Examiner, Art Unit 1793 /J.A. LORENGO/ Supervisory Patent Examiner, Art Unit 1793